## **ANNUAL SYNAR REPORT**

42 U.S.C. 300x-26

OMB № 0930-0222

FFY 2025 State: Missouri

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OMB No. 0930-0222

Expiration Date: 06/30/XXXX

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### INTRODUCTION

The Annual Synar Report (ASR) format provides the means for states to comply with the reporting provisions of the Public Health Service Act (42 U.S.C. 300x-26) and the Tobacco Regulation for the Substance Abuse Prevention and Treatment Block Grant (SABG) (45 C.F.R. 96.130 (e)).

### How the Synar report helps the Center for Substance Abuse Prevention

In accordance with the tobacco regulations, states are required to provide detailed information on progress made in enforcing youth and young adult tobacco access laws (FFY 2024 Compliance Progress) and future plans to ensure compliance with the Synar requirements to reduce youth and young adult tobacco access rates (FFY 2025 Intended Use Plan). These data are required by 42 U.S.C. 300x-26 and will be used by the Secretary to evaluate state compliance with the statute. Part of the mission of the Center for Substance Abuse Prevention (CSAP) is to assist states<sup>1</sup> by supporting Synar activities and providing technical assistance helpful in determining the type of enforcement measures and control strategies that are most effective. This information is helpful to CSAP in improving technical assistance resources and expertise on enforcement efforts and tobacco control program support activities, including state Synar program support services, through an enhanced technical assistance program involving conferences and workshops, development of training materials and guidance documents, and onsite technical assistance consultation.

### How the Synar report can help states

The information gathered for the Synar report can help states describe and analyze substate needs for program enhancements. These data can also be used to report to the state legislature and other state and local organizations on progress made to date in enforcing youth and young adult tobacco access laws when aggregated statistical data from state Synar reports can demonstrate to the Secretary the national progress in reducing youth and young adult tobacco access problems. This information will also provide Congress with a better understanding of state progress in implementing Synar, including state difficulties and successes in enforcing retailer compliance

<sup>&</sup>lt;sup>1</sup>The term "state" is used to refer to all the states and territories required to comply with Synar as part of the Substance Abuse Prevention and Treatment Block Grant Program requirements (42 U.S.C. 300x-64 and 45 C.F.R. 96.121).

with youth and young adult tobacco access laws.

### Getting assistance in completing the Synar report

If you have questions about programmatic issues, you may call CSAP's Division of Primary Prevention at (240) 276-2550 and ask for your respective State Project Officer, or contact your State Project Officer directly by telephone or email. If you have questions about fiscal or grants management issues, you may call your Grants Management Specialist in the Office of Financial Resources, Division of Grants Management, at (240) 276-1422.

### Where and when to submit the Synar report

The ASR must be received by SAMHSA no later than December 31, 2024 and must be submitted in the format specified by these instructions. Use of the approved format will avoid delays in the review and approval process. The chief executive officer (or an authorized designee) of the applicant organization must sign page one of the ASR certifying that the state has complied with all reporting requirements.

The state must upload one copy of the ASR using the online WebBGAS (Block Grant Application System). In addition, the following items must be uploaded to WebBGAS:

- FFY 2025 Synar Survey Results: States that use the Synar Survey Estimation System (SSES) must upload one copy of SSES Tables 1–8 (in Excel) to WebBGAS. Please note that, in the FFY 2025 ASR, SSES will generate Tables 6, 7, and 8, which are based on the optional microdata on product type, retail outlet type, and whether identification was requested. If your state does not submit these optional data, Tables 6, 7, and 8 will be blank. Tables 6, 7, and 8 are generated for the convenience of the state, and states are not required to submit completed versions of Tables 6, 7, or 8. States that do not use SSES must upload one copy of ASR Forms 1, 4, and 5, and Forms 2 and 3, if applicable, (in Excel), as well as a database with the raw inspection data to WebBGAS.
- Synar Inspection Form: States must upload one blank copy of the inspection form used to record the result of each Synar inspection.
- Synar Inspection Protocol: States must upload a copy of the protocol used to train inspection teams on conducting and reporting the results of the Synar inspections. This document should be different than the Appendix C attached to the Annual Synar Report.
- A scanned copy of the signed Funding Agreements/Certifications

Each state SSA Director has been emailed a login ID and password to log onto the Synar section of the WebBGAS site.

### FFY 2025: FUNDING AGREEMENTS/CERTIFICATIONS

The following form must be signed by the Chief Executive Officer or an authorized designee and submitted with this application. Documentation authorizing a designee must be attached to the application.

#### PUBLIC HEALTH SERVICES ACT AND SYNAR AMENDMENT

42 U.S.C. 300x-26 requires each state to submit an annual report of its progress in meeting the requirements of the Synar Amendment and its implementing regulation (45 C.F.R. 96.130) to the Secretary of the Department of Health and Human Services. By signing below, the chief executive officer (or an authorized designee) of the applicant organization certifies that the state has complied with these reporting requirements and the certifications as set forth below.

#### SYNAR SURVEY SAMPLING METHODOLOGY

The state certifies that the Synar survey sampling methodology on file with the Center for Substance Abuse Prevention and submitted with the Annual Synar Report for FFY 2025 is up-to-date and approved by the Center for Substance Abuse Prevention.

#### SYNAR SURVEY INSPECTION PROTOCOL

The state certifies that the Synar Survey Inspection Protocol on file with the Center for Substance Abuse Prevention and submitted with the Annual Synar Report for FFY 2025 is up-to-date and approved by the Center for Substance Abuse Prevention.

Center for buoblance flouse fre vention.		
State: Missouri		
Name of Chief Executive Officer or Designee: Valerie Huhn		
Signature of CEO or Designee: Valerie Huhn		
Title: Department Director	Date Signed:	10/21/2024
If signed by a designee, a copy of the design		

FFY: 2025

## **SECTION I: FFY 2024 (Compliance Progress)**

### YOUTH AND YOUNG ADULT ACCESS LAWS, ACTIVITIES, AND ENFORCEMENT

42 U.S.C. 300x-26 requires the states to report information regarding the sale/distribution of tobacco products to individuals under age 21.

1.	and you state lav	ndicate any changes or additions to the state tobacco statute(s) relating to youth ng adult access since the last reporting year. If any changes were made to the v(s) since the last reporting year, please upload a copy of the state law to AS. (see 42 U.S.C. 300x-26).
	a.	Has there been a change in the minimum sale age for tobacco products?
		☐ Yes ⊠ No
		If Yes, current minimum age: 19 20 21
	b.	Have there been any changes in state law that impact the state's protocol for conducting <i>Synar inspections?</i>
		☐ Yes ⊠ No
		If Yes, indicate change. (Check all that apply.)  Changed to require that law enforcement conduct inspections of tobacco outlets  Changed to make it illegal for youth and young adults to possess, purchase or receive tobacco  Changed to require ID to purchase tobacco  Changed definition of tobacco products  Other change(s) (Please describe.)
	c.	Have there been any changes in state law that impact the following?
		Licensing of tobacco vendors Yes No
		Penalties for sales to minors Vending machines  Yes  Yes  No  Added product
		categories to youth and young adult access law Yes No
2.		e how the Annual Synar Report (see 45 C.F.R. 96.130(e)) was made public he state prior to submission of the ASR. (Check all that apply.)
		Placed on file for public review
		Posted on a state agency Web site (Please provide exact Web address and the date en the FFY 2025 ASR was posted to this Web address.)
		Web address: https://dmh.mo.gov/alcohol-drug/reports/synar
		<u>Date published: 10/21/2024</u>
		Notice published in a newspaper or newsletter

	Announced in a news release, a press conference, or discussed in a media interview  Distributed for review as part of the SABG application process  Distributed through the public library system  Published in an annual register
2 Identify	Other (Please describe.)  the following agency or agencies (see 42 U.S.C. 300x-26 and 45 C.F.R. 96.130).
_	The state agency (ies) designated by the Governor for oversight of the Synar requirements:
	Department of Mental Health, Division of Behavioral Health
	Has this changed since last year's Annual Synar Report?
	☐ Yes ⊠ No
b.	The state agency(ies) responsible for conducting random, unannounced Synar inspections:
	Department of Mental Health, Division of Behavioral Health
	Has this changed since last year's Annual Synar Report?
	☐ Yes ⊠ No
с.	The state agency(ies) responsible for enforcing youth and young adult tobacco access law(s):
	Department of Public Safety, Division of Alcohol and Tobacco Control
	Has this changed since last year's Annual Synar Report?
	☐ Yes ⊠ No
•	the following agencies and describe their relationship with the agency ible for the oversight of the Synar requirements.
a.	Identify the state agency responsible for tobacco prevention activities (the agency that receives the Centers for Disease Control and Prevention's National Tobacco Control Program funding).  The agency that receives the Center for Disease Control and Prevention's National Tobacco Control Program funding is the Department of Health and Senior Services (tobacco cessation)
<b>b.</b>	Has the responsible agency changed since last year's Annual Synar Report?  ☐ Yes ☑ No
c.	Describe the coordination and collaboration that occur between the agency responsible for tobacco prevention and the agency responsible for oversight of the Synar requirements. ( <i>Check all that apply.</i> ) The two agencies

	Are the same
	Have a formal written memorandum of agreement
	Have an informal partnership
	Conduct joint planning activities
	Combine resources
	Have other collaborative arrangement(s) ( <i>Please describe</i> .)
	☐ No relationship
d.	Does a state agency contract with the Food and Drug Administration's Center for Tobacco Products (FDA/CTP) to enforce the youth and young adult access and advertising restrictions in the Family Smoking Prevention and Tobacco Control Act?  Yes No (if no, go to Question 5)
e.	If yes, identify the state agency responsible for enforcing the youth and young adult access and advertising restrictions in the Family Smoking Prevention and Tobacco Control Act (the agency that is under contract to the Food and Drug Administration's Center for Tobacco Products (FDA/CTP)).  The Department of Mental Health, Division of Behavioral Health contracts with FDA and subcontracts with the Department of Public Safety, Division of Alcohol and Tobacco Control.
f.	Has the responsible agency changed since last year's Annual Synar Report?  ☐ Yes ☑ No
g.	Describe the coordination and collaboration that occur between the agency contracted with the FDA to enforce federal youth and young adult tobacco access laws and the agency responsible for oversight of the Synar requirements. (Check all that apply.) The two agencies:
	Are the same
	Have a formal written memorandum of agreement
	Have an informal partnership
	Conduct joint planning activities
	Combine resources
	Have other collaborative arrangement(s) ( <i>Please describe</i> .)
	☐ No relationship
h.	Does the state use data from the FDA enforcement inspections for Synar survey reporting?  ☐ Yes ☒ No

5.	state's y	Inswer the following questions regarding youth and young adult access to tobacco $45 \ C.F.R. \ 96.130(e)$ ).			
	а.	Which one of the following describes the adult access to tobacco laws carried out only.)			
		☐ Enforcement is conducted exclusively	by local law	enforcement a	gencies.
			by state agen	cy(ies).	
		Enforcement is conducted by both loc	cal <i>and</i> state ag	gencies.	
	and <u>ENF</u> <u>fede</u> requ appl	The following items concern penalties if young adult access to tobacco laws by <u>Leorement AGENCIES</u> (this does not allow for an licable). If a response for an item is unknown to filled in completely.	OCAL AND/ot include enfo ss laws). Pleas item, please n	OR STATE I preement of lo e fill in the nu nark "NA" (n	AW ocal laws or umber
		PENALTY	OWNERS	CLERKS	TOTAL
	N	Number of citations issued	1	3	4
	N	Number of <u>fines assessed</u>	0	3	3
	1	Number of permits/licenses suspended	3		3
	N	Number of permits/licenses revoked	0		0
	(	Other (Please describe.)	0	0	0
	c.	Are citations or warnings issued to reta minors for inspections that are part of			pacco to

d. Which one of the following best describes the level of enforcement of state youth and young adult access to tobacco laws carried out in your state? (Check one category only.)

	Enforcement is conducted only at those outlets randomly selected for the Synar survey.
	Enforcement is conducted only at a subset of outlets not randomly selected for the Synar survey.
	☐ Enforcement is conducted at a combination of outlets randomly selected for the Synar survey and outlets not randomly selected for the Synar survey.
e.	Did every tobacco outlet in the state receive at least one compliance check that included enforcement of the state youth and young adult tobacco access law(s) in the last year?
	☐ Yes ⊠ No
f.	What additional activities are conducted in your state to support enforcement and compliance with state youth and young adult tobacco access law(s)?  (Check all that apply and briefly describe each activity in the text boxes below each activity.)  Merchant education and/or training
	The Department of Mental Health –Division of Behavioral Health (DBH) contracted with the prevention resource centers to visit the tobacco retailers in their regions. The merchant visits were conducted between March and April of 2024. The objective of the visits were to:
	•Provide information regarding the state's law on youth access to tobacco products,
	•Distribute state law signs,
	•Identify outlets that no longer sell tobacco or are out of business,
	• Update outlet name, phone number and address information in the listing of known tobacco outlets maintained by DMH-DBH, and to
	•Identify new businesses that sell tobacco.
	In 2024, 5,837 tobacco retailers were visited. Merchant training was discussed with the manager and/or owner at 5,584 of these outlets.
	☐ Incentives for merchants who are in compliance (e.g., nonenforcement compliance checks in which compliant retailers are given positive reinforcement and noncompliant retailers are warned about youth and young adult access laws)
	Community education regarding youth and young adult access laws
	☐ Media use to publicize compliance inspection results
	Community mobilization to increase support for retailer compliance with youth and young adult access laws

Other activities ( <i>Please list.</i> )	

### SYNAR SURVEY METHODS AND RESULTS

The following questions pertain to the survey methodology and results of the Synar survey used by the state to meet the requirements of the Synar Regulation in FFY 2024 (see 42 U.S.C. 300x-26 and 45 C.F.R. 96.130).

).	Has the sampling methodology changed from the previous year?
	☐ Yes ⊠ No
	The state is required to have an approved up-to-date description of the Synar sampling methodology on file with CSAP. Please submit a copy of your Synar Survey Sampling Methodology (Appendix B). If the sampling methodology changed from the previous reporting year, these changes must be reflected in the methodology submitted.
	a. If yes, describe how and when this change was communicated to SAMHSA
7.	Please answer the following questions regarding the state's annual random, unannounced inspections of tobacco outlets (see 45 C.F.R. $96.130(d)(2)$ ).
	a. Did the state use the optional Synar Survey Estimation System (SSES) to analyze the Synar survey data?
	⊠ Yes □ No
	If <b>Yes</b> , upload a copy of SSES tables 1–8 (in Excel) to WebBGAS. Then go to Question 8. If <b>No</b> , continue to Question 7b.
	b. Report the weighted and unweighted Retailer Violation Rate (RVR) estimates, the standard error, accuracy rate (number of eligible outlets divided by the total number of sampled outlets), and completion rate (number of eligible outlets inspected divided by the total number of eligible outlets).
	Unweighted RVR
	Weighted RVR
	Standard error (s.e.) of the (weighted) RVR
	Fill in the blanks to calculate the $\frac{\text{right limit}}{\text{of the right-sided 95\%}}$ confidence interval.
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
	Accuracy rate
	Completion rate

c.	<b>Fill out Form 1 in Appendix A (Forms 1–5).</b> (Required regardless design.)	of the sample		
d.	How were the (weighted) RVR estimate and its standard error of (Check the one that applies.)	btained?		
	☐ Form 2 (Optional) in Appendix A (Forms 1–5) (Attach completed	l Form 2.)		
	Other (Please specify. Provide formulas and calculations or attactive the program code and output with description of all variable name	•		
e.	If stratification was used, did any strata in the sample contain outlet or cluster this year?	only one		
	☐ Yes ☐ No ☐ No stratification			
	If Yes, explain how this situation was dealt with in variance estimation	on.		
f.	Was a cluster sample design used?			
	☐ Yes ☐ No			
	If <b>Yes</b> , fill out and attach Form 3 in Appendix A (Forms 1–5), and an following question.	swer the		
	If No, go to Question 7g.			
	Were any certainty primary sampling units selected this year?			
	☐ Yes ☐ No			
	If Yes, explain how the certainty clusters were dealt with in variance	estimation.		
g.	Report the following outlet sample sizes for the Synar survey.			
		Sample Size		
	Effective sample size (sample size needed to meet the SAMHSA precision requirement assuming simple random sampling)			
	<b>Target sample size</b> (the product of the effective sample size and the design effect)			
	<b>Original sample size</b> (inflated sample size of the target sample to counter the sample attrition due to ineligibility and noncompletion)			
	Eligible sample size (number of outlets found to be eligible in the sample)			
	Final sample size (number of eligible outlets in the sample for which an inspection was completed)			

h. Fill out Form 4 in Appendix A (Forms 1–5).

8.	Did the	state's Synar survey use a list frame?
	<b>⊠</b> Yes	□No
	If Yes, a	nswer the following questions about its coverage.
	a.	The calendar year of the latest Sampling frame coverage study: 2021
	b.	Percent coverage from the latest Sampling frame coverage study: <u>92.3%</u>
	c.	Was a new study conducted in this reporting period?
		⊠Yes □ No
		If <b>Yes</b> , please complete Appendix D (List Sampling Frame Coverage Study) and submit it with the Annual Synar Report.
	d.	The calendar year of the next coverage study planned: 2027
9.	Has the	Synar survey inspection protocol changed from the previous year?
	<b>Yes</b>	□ No
	protocol (Append be reflec	e is required to have an approved up-to-date description of the Synar inspection on file with CSAP. Please submit a copy of your Synar Survey Inspection Protocol (ix C). If the inspection protocol changed from the previous year, these changes must eted in the protocol submitted.  If Yes, describe how and when this change was communicated to SAMHSA
		The inspection period was adjusted to end on 9/30/2024 instead of 8/31/2024. The adjustment was discussed with SAMHSA, CSAP on 9/9/2024 on a conference call to discuss the need to adjust the period.
	b.	Provide the inspection period: From 07/01/2024 to 09/30/2024 MM/DD/YY MM/DD/YY
	с.	Provide the number of youth and young adult inspectors used in the current inspection year:
		<u>26</u>
		NOTE: If the state uses SSES, please ensure that the number reported in 9b matches that reported in SSES Table 4, or explain any difference.

**d.** Fill out and attach Form 5 in Appendix A (Forms 1–5). (Not required if the state used SSES to analyze the Synar survey data.)

## **SECTION II: FFY 2025 (Intended Use):**

Public Law 42 U.S.C. 300x-26 of the Public Health Service Act and 45 C.F.R. 96.130 (e) (4, 5) require that the states provide information on future plans to ensure compliance with the Synar requirements to reduce youth and young adult tobacco access.

1.	In the upcoming year, does the state anticipate any changes in:
	Synar sampling methodology
	If changes are made in either the Synar sampling methodology or the Synar inspection protocol, the state is required to obtain approval from CSAP prior to implementation of the change and file an updated Synar Survey Sampling Methodology (Appendix B) or an updated Synar Survey Inspection Protocol (Appendix C), as appropriate.
2.	Please describe the state's plans to maintain and/or reduce the target rate for Synar inspections to be completed in FFY 2025. Include a brief description of plans for law enforcement efforts to enforce youth and young adult tobacco access laws, activities that support law enforcement efforts to enforce youth and young adult tobacco access laws, and any anticipated changes in youth and young adult tobacco access legislation or regulation in the state.
	The Department of Mental Health –Division of Behavioral Health (DBH) will continue to contract with the Food and Drug Administration for enforcement of the federal tobacco control laws. DBH is working with the Department of Public Safety –Division of Alcohol and Tobacco Control (ATC) to increase enforcement of state tobacco laws. For FFY 2025, the state will have five ATC agents who will be funded 90% federal and 10% state to conduct state and federal undercover buy inspections and federal advertising and labeling inspections. The agents will be conducting state enforcement checks. In FFY 2025, DBH will continue the merchant visits conducted by prevention resource centers.
3.	Describe any challenges the state faces in complying with the Synar regulation. (Check all that apply and describe each challenge in the text box below it.)
	Limited resources for law enforcement of youth and young adult access laws
	Limited resources for activities to support enforcement and compliance with youth and young adult tobacco access laws
	Limitations in the state youth and young adult tobacco access laws
	Limited public support for enforcement of youth and young adult tobacco access laws
	Limitations on completeness/accuracy of list of tobacco outlets

□ I	Limited expertise in survey methodology
	Laws/regulations limiting the use of minors in tobacco inspections
	Difficulties recruiting youth and young adult inspectors
L	
	ssues regarding the balance of inspections conducted by youth inspectors age 15 under
	ssues regarding the balance of inspections conducted by one gender of youth and ng adult inspectors
	Geographic, demographic, and logistical considerations in conducting inspections
L	
	Cultural factors (e.g., language barriers, young people purchasing for their elders)
	Issues regarding sources of tobacco under tribal jurisdiction
$\boxtimes$ (	Other challenges (Please list.) No challenges

### **APPENDIX A: FORMS 1–5**

## FORM 1 (Required for all states not using the Synar Survey Estimation System (SSES) to analyze the Synar Survey data)

Complete Form 1 to report sampling frame and sample information and to calculate the unweighted retailer violation rate (RVR) using results from the current year's Synar survey inspections.

**Instructions for Completing Form 1:** In the top right-hand corner of the form, provide the state name and reporting federal fiscal year (FFY 2025). Provide the remaining information by stratum if stratification was used. Make copies of the form if additional rows are needed to list all the strata.

- Column 1: If stratification was used:
  - 1(a) Sequentially number each row.
  - 1(b) Write in the name of each stratum. All strata in the state must be listed.

If no stratification was used:

- 1(a) Leave blank.
- 1(b) Write "state" in the first row (indicates that the whole state is a single stratum).

Note for unstratified samples: For Columns 2–5, wherever the instruction refers to "each stratum," report the specified information for the state as a whole.

- Column 2: 2(a) Report the number of over-the-counter (OTC) outlets in the sampling frame in each stratum.
  - 2(b) Report the number of vending machine (VM) outlets in the sampling frame in each stratum.
  - 2(c) Report the combined total of OTC and VM outlets in the sampling frame in each stratum.
- Column 3: 3(a) Report the estimated number of eligible OTC outlets in the OTC outlet population in each stratum.
  - 3(b) Report the estimated number of eligible VM outlets in the VM outlet population in each stratum.
  - 3(c) Report the combined total estimated number of eligible OTC and VM outlets in the total outlet population in each stratum.

The estimates for Column 3 can be obtained from the Synar survey sample as the weighted sum of eligible outlets by outlet type.

- Column 4: 4(a) Report the number of eligible OTC outlets for which an inspection was completed, for each stratum.
  - 4(b) Report the numbers of eligible VM outlets for which an inspection was completed, for each stratum.
  - 4(c) Report the combined total of eligible OTC and VM outlets for which an inspection was completed, for each stratum.
- Column 5: 5(a) Report the number of OTC outlets found in violation of the law as a result of completed inspections, for each stratum.
  - 5(b) Report the number of VM outlets found in violation of the law as a result of completed inspections, for each stratum.
  - 5(c) Report the combined total of OTC and VM outlets found in violation of the law as a result of completed inspections, for each stratum.
- Totals: For each subcolumn (a–c) in Columns 2–5, provide totals for the state as a whole in the last row of the table. These numbers will be the sum of the numbers in each row for the respective column.

FORM 1 (Required for all states not using the Synar Survey Estimation System [SSES] to analyze the Synar Survey data.)

Summary of Synar Inspection Results by Stratum													
				Summ	nary of Sy	nar mspe	ection Res	uits by St	ratum		S	State:	
											1	F <b>FY:</b> <u>2025</u>	
(	(1)		(2)			(3)			(4)		(5)		
STRATUM			ER OF OUT IPLING FR		ELIGI	ESTIMATED NUMBER OF		NUMBER OF OUTLETS INSPECTED		NO. OF OUTLETS FOUND IN VIOLATION DURING INSPECTIONS			
(a) Row#	(b) Stratum Name	(a) Over-the- Counter (OTC)	(b) Vending Machines (VM)	(c) Total Outlets (2a+2b)	(a) Over-the- Counter (OTC)	(b) Vending Machines (VM)	(c) Total Outlets (3a+3b)	(a) Over-the- Counter (OTC)	(b) Vending Machines (VM)	(c) Total Outlets (4a+4b)	(a) Over-the- Counter (OTC)	(b) Vending Machines (VM)	(c) Total Outlets (5a+5b)

RECORD COLUMN TOTALS ON LAST LINE (LAST PAGE ONLY IF MULTIPLE PAGES ARE NEEDED).

#### FORM 2 (Optional)

### Appropriate for stratified simple or systematic random sampling designs.

Complete Form 2 to calculate the weighted RVR. This table (in Excel form) is designed to calculate the weighted RVR for stratified simple or systematic random sampling designs, accounting for ineligible outlets and noncomplete inspections encountered during the annual Synar survey.

**Instructions for Completing Form 2:** In the top right-hand corner of the form, provide the state name and reporting federal fiscal year (FFY 2025).

- Column 1: Write in the name of each stratum into which the sample was divided. These should match the strata reported in Column 1(b) of Form 1.
- Column 2: Report the number of outlets in the sampling frame in each stratum. These numbers should match the numbers reported for the respective strata in Column 2(c) of Form 1.
- Column 3: Report the original sample size (the number of outlets originally selected, *including* substitutes or replacements) for each stratum.
- Column 4: Report the number of sample outlets in each stratum that were found to be eligible during the inspections. Note that this number must be less than or equal to the number reported in Column 3 for the respective strata.
- Column 5: Report the number of eligible outlets in each stratum for which an inspection was completed. Note that this number must be less than or equal to the number reported in Column 4. These numbers should match the numbers reported in Column 4(c) of Form 1 for the respective strata.
- Column 6: Report the number of eligible outlets inspected in each stratum that were found in violation. These numbers should match the numbers reported in Column 5(c) of Form 1 for the stratum.
- Column 7: Form 2 (in Excel form) will automatically calculate the stratum RVR for each stratum in this column. This is calculated by dividing the number of inspected eligible outlets found in violation (Column 6) by the number of inspected eligible outlets (Column 5). The state unweighted RVR will be shown in the Total row of Column 7.
- Column 8: Form 2 (in Excel form) will automatically calculate the estimated number of eligible outlets in the population for each stratum. This calculation is made by multiplying the number of outlets in the sampling frame (Column 2) times the number of eligible outlets (Column 4) divided by the original sample size (Column 3). Note that these numbers will be less than or equal to the numbers in Column 2.
- Column 9: Form 2 (in Excel form) will automatically calculate the relative stratum weight by dividing the estimated number of eligible outlets in the population for each stratum in Column 8 by the Total of the values in Column 8.
- Column 10: Form 2 (in Excel form) will automatically calculate each stratum's contribution to the state weighted RVR by multiplying the stratum RVR (Column 7) by the relative stratum weight (Column 9). The weighted RVR for the state will be shown in the Total row of Column 10.
- Column 11: Form 2 (in Excel form) automatically calculates the standard error of each stratum's RVR (Column 7). The standard error for the state weighted RVR will be shown in the Total row of Column 11.
- TOTAL: For Columns 2–6, Form 2 (in Excel form) provides totals for the state as a whole in the last row of the table. For Columns 7–11, it calculates the respective statistic for the state as a whole.

FORM 2 (Optional) Appropriate for stratified simple or systematic random sampling designs.

#### **Calculation of Weighted Retailer Violation Rate State: FFY:** 2025 (10)(4) (8) N'=N(n1/n)(9) (2) n1 (6) (7) pw Ν Number of (5) p=x/n2Estimated w=N'/Total Stratum (11)X Number of n2 (3) Sample Number of Stratum Number of Column 8 Contribution s.e. (1) Outlets Outlets Number of Outlets Retailer Eligible Relative to State Standard Stratum in Sampling Original Found Outlets Found Violation Outlets in Stratum Weighted Error of Sample Size Name Frame Eligible Inspected in Violation Rate Population Weight RVR Stratum RVR **Total**

- N number of outlets in sampling frame
- n original sample size (number of outlets in the original sample)
- n1 number of sample outlets that were found to be eligible
- $\ensuremath{\text{n}2}$  number of eligible outlets that were inspected
- x number of inspected outlets that were found in violation
- p stratum retailer violation rate (p=x/n2)
- N' estimated number of eligible outlets in population (N'=N\*n1/n)
- w relative stratum weight (w=N'/Total Column 8)
- pw stratum contribution to the weighted RVR
- s.e. standard error of the stratum RVR

## FORM 3 (Required when a cluster design is used for all states not using the Synar Survey Estimation System [SSES] to analyze the Synar survey data.)

Complete Form 3 to report information about primary sampling units when a cluster design was used for the Synar survey.

**Instructions for Completing Form 3:** In the top right-hand corner of the form, provide the state name and reporting federal fiscal year (FFY 2025).

Provide information by stratum if stratification was used. Make copies of the form if additional rows are needed to list all the strata.

Column 1: Sequentially number each row.

Column 2: If stratification was used: Write in the name of stratum. All strata in the state must be

listed.

If no stratification was used: Write "state" in the first row to indicate that the whole state

constitutes a single stratum.

Column 3: Report the number of primary sampling units (PSUs) (i.e., first-stage clusters) created for

each stratum.

Column 4: Report the number of PSUs selected in the original sample for each stratum.

Column 5: Report the number of PSUs in the final sample for each stratum.

TOTALS: For Columns 3–5, provide totals for the state as a whole in the last row of the table.

Summary of Clusters Created and Sampled								
	State:							
			<b>FFY:</b> 2025					
(1) Row #	(2) Stratum Name	(3) Number of PSUs Created	(4) Number of PSUs Selected	(5) Number of PSUs in the Final Sample				
	Total							

## FORM 4 (Required for all states not using the Synar Survey Estimation System [SSES] to analyze the Synar Survey data)

Complete Form 4 to provide detailed tallies of ineligible sample outlets by reasons for ineligibility and detailed tallies of eligible sample outlets with noncomplete inspections by reasons for noncompletion.

**Instructions for Completing Form 4:** In the top right-hand corner of the form, provide the state name and reporting federal fiscal year (FFY 2025).

Column 1(a): Enter the number of sample outlets found ineligible for inspection by reason for ineligibility. Provide the total number of ineligible outlets in the row marked "Total."

Column 2(a): Enter the number of eligible sample outlets with noncomplete inspections by reason for noncompletion. Provide the total number of eligible outlets with noncomplete inspections in the row marked "Total."

Inspection Tallies by Reason of Ineligibility or Noncompletion						
		State:				
		<b>FFY:</b> 2025				
(4)						
(1) INELIGIBLE		(2) ELIGIBLE				
Reason for Ineligibility	(a) Counts	Reason for Noncompletion	(a) Counts			
Out of business		In operation but closed at time of visit				
Does not sell tobacco products		Unsafe to access				
Inaccessible by youth or young adult		Presence of police				
Private club or private residence		Youth or young adult inspector knows salesperson				
Temporary closure		Moved to new location				
Unlocatable		Drive-thru only/youth or young adult inspector has no driver's license				
Wholesale only/Carton sale only		Tobacco out of stock				
Vending machine broken		Ran out of time				
Duplicate		Other noncompletion reason(s) (Describe.)				
Other ineligibility reason(s) (Describe.)						
Total		Total				

## FORM 5 (Required for all states not using the Synar Survey Estimation System [SSES] to analyze the Synar survey data)

Complete Form 5 to show the distribution of outlet inspection results by age and gender of the youth and young adult inspectors.

**Instructions for Completing Form 5:** In the top right-hand corner of the form, provide the state name and reporting federal fiscal year (FFY 2025).

Column 1: Enter the number of attempted buys by youth and young adult inspector age and gender.

Column 2: Enter the number of successful buys by youth and young adult inspector age and gender.

If the inspectors are age eligible but the gender of the inspector is unknown, include those inspections in the "Other" row. Calculate subtotals for males and females in rows marked "Male Subtotal" and "Female Subtotal." Sum subtotals for Male, Female, and Other and record in the bottom row marked "Total." Verify that that the total of attempted buys and successful buys equals the total for Column 4(c) and Column 5(c), respectively, on Form 1. If the totals do not match, please explain any discrepancies.

	Synar Survey Inspector Charac	teristics
		State:
		<b>FFY:</b> 2025
	(1) Attempted Buys	(2) Successful Buys
Male		
15 years		
16 years		
17 years		
18 years		
19 years		
20 years		
Male Subtotal		
Female		
15 years		
16 years		
17 years		
18 years		
19 years		
20 years		
Female Subtotal		
Other		
Total		

### **APPENDIXES B & C: FORMS**

#### Instructions

Appendix B (Sampling Design) and Appendix C (Inspection Protocol) are to reflect the state's CSAP-approved sampling design and inspection protocol. These appendixes, therefore, should generally describe the design and protocol and, with the exception of Question #10 of Appendix B, are not to be modified with year-specific information. Please note that any changes to either appendix must receive CSAP's advance, written approval. To facilitate the state's completion of this section, simply cut and paste the previously approved sampling design (Appendix B) and inspection protocol (Appendix C) and respond to Question #10 of Appendix B to provide the requested information about sample size calculations for the Synar survey conducted in FFY 2024.

### APPENDIX B: SYNAR SURVEY SAMPLING METHODOLOGY

State:	Missouri
FFY:	2025

4	<b>TT71</b>	4	1.	e	•	10
1.	what	type of	samplin	o trame	- 10	iiced ,
≖•	* * 11tt	ty pe or	Sampin	S II allic	10	ubcu.

☐ List frame (Go to Question 2.)	
☐ Area frame (Go to Question 3.)	
☐ List-assisted area frame (Go to Ouestion 2.	

2. List all sources of the list frame. Indicate the type of source from the list below. Provide a brief description of the frame source. Explain how the lists are updated (method), including how new outlets are identified and added to the frame. In addition, explain how often the lists are updated (cycle). (After completing this question, go to Question 4.)

Use the corresponding number to indicate Type of Source in the table below.

1 – Statewide commercial business list

4 – Statewide retail license/permit list

2 – Local commercial business list

5 – Statewide liquor license/permit list

3 – Statewide tobacco license/permit list

6 – Other

Name of Frame Source	Type of Source	Description	Updating Method and Cycle
Listing of tobacco outlets maintained by Department of Mental Health – Division of Behavioral Health (DMH-DBH)	6	The frame was constructed based on a list of tobacco outlets from previous years	The list is continuously modified through merchant education visits and Synar visits by contracted prevention providers and by enforcement activities from the Department of Public Safety, Division of Alcohol and Tobacco Control
Tobacco registry maintained by the Department of Revenue	6	The registry is developed from a checkbox question on the business tac form. Shortcomings of the source include:  1) the absence of outlet phone numbers, 2) some registered outlets that do not sell tobacco products, 3) some unregistered outlets that do sell tobacco products, 4) some outlets listed multiple times, and 5) some invalid addresses	DBH receives quarterly installments of the tobacco registry. New records are identified and added to the master list. Change of ownership and other duplicates are identified through a manual search process. The new information is incorporated into the master list and duplicates are eliminated.

3.	If an area frame is used, describe how area sampling units are defined and formed.
	a. Is any area left out in the formation of the area frame?
	☐ Yes ☐ No

	If <b>Yes,</b> what percentage of the state's population is not covered by the area frame?
4.	Federal regulation requires that vending machines be inspected as part of the Synar survey. Are vending machines included in the Synar survey?
	☐ Yes ⊠ No
	If <b>No</b> , please indicate the reason(s) they are not included in the Synar survey. Please check all that apply.
	☐ State law bans vending machines.
	☐ State law bans vending machines from locations accessible to youth and young adults.
	State has a contract with the FDA and is actively enforcing the vending machine requirements of the Family Smoking Prevention and Tobacco Control Act.
	Other (Please describe.) Federal law bans vending machines from locations accessible to youth.  The Department of Mental Health is contracted with the FDA.
	If Yes, please indicate how likely it is that vending machines will be sampled.
	☐ Vending machines are sampled separately to ensure vending machines are included in the sample
	<ul> <li>☐ Vending machines are sampled together with over the counter outlets, so it is possible that no vending machines were sampled, however they are included in the sampling frame and have a non-zero probability of selection</li> <li>☐ Other reasons (<i>Please describe</i>.)</li> </ul>
5.	Which category below best describes the sample design? (Check only one.)
	Census (STOP HERE: Appendix B is complete.)
	Unstratified statewide sample:
	Simple random sample (Go to Question 9.)
	Systematic random sample (Go to Question 6.)
	Single-stage cluster sample (Go to Question 8.)
	☐ Multistage cluster sample (Go to Question 8.)
	Stratified sample:
	<ul><li></li></ul>
	☐ Single-stage cluster sample (Go to Question 7.) ☐ Multistage cluster sample (Go to Question 7.)
	Other (Please describe and go to Question 9.)

**6. Describe the systematic sampling methods.** (After completing Question 6, go to Question 7 if stratification is used. Otherwise go to Question 9.)

The listing is sorted by county, city, and ZIP code to achieve implicit stratification. The sample was selected based on a random start. The RAND() function in excel was used to generate a starting point between 1 and n, where  $n = \frac{1}{n}$  (number of outlets in list)/(number of needed for the sample). Successive outlets were chosen at n intervals.

7.	Provide th	ne followin	g inforn	nation al	bout stra	tification.

a.	Provide a	full	description	of the	strata	that are	created.
----	-----------	------	-------------	--------	--------	----------	----------

Five strata are defined according to SUD Planning Regions (1) Eastern; (2) Northcentral; (3) Northwestern; (4) Southeastern; (5) Southwestern.

b.	Is c	lustering	used	within	the	stratified	sample?
~•	<b>-</b> D -			* * * * * * * * * * * * * * * * * * * *		DUI WULLIOU	Detailpre

Yes (Go to Question 8.)  $\bowtie$  No (Go to Question 9.)

### 8. Provide the following information about clustering.

**a.** Provide a full description of how clusters are formed. (If multistage clusters are used, give definitions of clusters at each stage.)

b.	Specify the sampling method (simple random, systematic, or probability
	proportional to size sampling) for each stage of sampling and describe how the
	method(s) is (are) implemented.

### 9. Provide the following information about determining the Synar Sample.

a. Was the Synar Survey Estimation System (SSES) used to calculate the sample

Yes (Respond to part b.)No (Respond to part c and Question 10c.)

b. SSES Sample Size Calculator used?

☐ State Level (Respond to Question 10a.)☐ Stratum Level (Respond to Question 10a and 10b.)

c. Provide the formulas for determining the effective, target, and original outlet sample sizes.

The effective sample size:

$$n_e = \frac{z^2 p(1-p)}{d^2} + 1$$

where

z = the value that cuts the tail of the normal distribution corresponding to a one-tailed 95% confidence level (1.645);

p = estimated noncompliance rate (0.2);

d = required margin of error (0.03).

The target sample size is then determined by

 $n_t = n_e * (design effect).$ 

Currently the design effect of one is assumed, but under the new design, it could change and so the actual design effect will be used in the future.

The original sample size:

$$n_O = \frac{n_t}{r_i r_c}$$

where

 $n_t$  = target sample size;

 $r_i$  = the expected eligibility rate;

 $r_c$  = the expected completion rate;

Note: Missouri always uses an original sample size of 645, unless the original sample size calculation results in a number larger than 645.

- 10. Provide the following information about sample size calculations for the Synar survey conducted in FFY 2024.
  - a. If the state uses the sample size formulas embedded in the SSES Sample Size Calculator to calculate the state level sample size, please provide the following information:

**Inputs for Effective Sample Size:** 

RVR:

Frame Size:

**Input for Target Sample Size:** 

Design Effect:

**Inputs for Original Sample Size:** 

Safety Margin:

Accuracy (Eligibility) Rate:

Completion Rate:

- b. If the state uses the sample size formulas embedded in the SSES Sample Size Calculator to calculate the stratum level sample sizes, please provide the stratum level information:
- c. If the state does not use the sample size formulas embedded in the SSES Sample Size Calculator, please provide all inputs required to calculate the effective, target, and original sample sizes as indicated in Question 9.

With inputs RVR = 20%, Design Effect = 1, the effective sample size and target sample size calculate to be 481. The expected accuracy and completeness rates (FFY 2024) are 91.0% and 98.3%, respectively. The original sample size calculates to be 538.

Missouri uses a fixed original sample size of 645.

## APPENDIX C: SYNAR SURVEY INSPECTION PROTOCOL SUMMARY

		State: Missouri FFY: 2025
Insp	ection	ad to WebBGAS a copy of the Synar inspection form under the heading "Synar Form" and a copy of the protocol used to train inspection teams on conducting and he results of the Synar inspections under the heading "Synar Inspection Protocol."
1. I	How do	es the state Synar survey protocol address the following?
	a.	Consummated buy attempts?
		<ul><li>☐ Required</li><li>☐ Permitted under specified circumstances (Describe: )</li></ul>
		Not permitted     ■     Not permitted     Not
	b.	Youth and young adult inspectors to carry ID?
		Required
		Permitted under specified circumstances (Describe: )
		Not permitted     ■     Not permitted     Not
	c.	Adult inspectors to enter the outlet?
		Required
	ob	Permitted under specified circumstances (Describe: Required unless it would be vious that the adult was with the youth)
		☐ Not permitted
	d.	Youth and young adult inspectors to be compensated?
		Required
		Permitted under specified circumstances (Describe: )
		Not permitted
	•	the agency(ies) or entity(ies) that actually conduct the random, unannounced inspections of tobacco outlets. (Check all that apply.)
		Law enforcement agency(ies)
		State or local government agency(ies) other than law enforcement
		Private contractor(s) Other
		st the agency name(s): <u>Tri-County Mental Health Services</u> ; <u>PreventEd</u> ; <u>Community Partnership</u> ;

3.	Are Synar inspections combined with law enforcement efforts (i.e., do law enforcement representatives issue warnings or citations to retailers found in violation of the law at the time of the inspection?)?
	☐ Always ☐ Usually ☐ Sometimes ☐ Rarely ☒ Never
4.	Describe the type of tobacco products that are requested during Synar inspections.
	a. What type of tobacco products are requested during the inspection?
	<ul> <li>☐ Cigarettes</li> <li>☐ Small Cigars</li> <li>☐ Cigarillos</li> <li>☐ Smokeless Tobacco</li> <li>☐ Electronic Cigarettes/Electronic Nicotine Delivery Systems (ENDS)</li> <li>☐ Other</li> </ul>
	b. Describe the protocol for identifying what types of products and what brands
	of products are requested during an inspection.
	The youth inspector should determine the type of tobacco product and one or two brands of tobacco before entering the outlet. They should always ask for a brand name. Among the youth some of the most popular brands are Marlboro, Camel, and Newport. Minors should select one premium brand and one generic brand from the following lists:  • Premium Brands  Marlboro, Camel, Newport, Kool, Merit, Salem, Carlton, Winston, More, Capri  • Generic Brands  Basic, Viceroy, GPC, Doral
	If smokeless tobacco (Copenhagen, Skoal, or other brands) is popular in the selected service area, the Adult supervisor will advise minors when to ask for these products. The Adult Supervisor should be fairly certain that the outlet sells smokeless tobacco before instructing the youth to request smokeless tobacco during the inspection.
	Cigars are covered under this program. However, minors must not ask if he/she can buy cigars as part of a compliance test unless instructed to do so by the Adult Supervisor. The Adult Supervisor should be fairly certain that the outlet sells cigars before instructing the youth to request cigars during the inspection.

### 5a. Describe the methods used to recruit, select, and train adult supervisors.

The screening process for the Adult Supervisors includes background checks through the Highway Patrol Department. Their records are checked for driving under the influence (DUI) and driving while intoxicated (DWI) violations as well as for child abuse and neglect incidents. Prerequisite training includes both didactic instruction and practical field experience. It is comprehensive and specific to all aspects of conducting safe and efficient retail outlet tobacco compliance tests. Adult Supervisors are recruited from contracted prevention providers. The primary duties and responsibilities of the adult inspectors are to train minors that have been recruited to participate in the program and to plan, coordinate, and conduct the Synar tests in accordance with established directives. The Adult Supervisors shall not have a significant financial interest in any of the establishments tested. Examples of significant financial interests include owning stock in the company that owns the establishment, or employment of a close family member by the company that owns the establishment. Ownership of shares of a mutual fund that invested in such company is not considered a significant financial interest.

# 5b. Describe the methods used to recruit, select, and train youth and young adult inspectors.

	and superv	spector is the person that will conduct compliance tests of tobacco retail outlets under the direct instruction ision of an adult supervisor. To be designated as a youth inspector a prospective youth participant must the all prerequisite requirements. The youths recruited to assist with the inspections must meet the following atts:
	• Be 16-to	20-years-old,
	• Be non-s	mokers, and
	• Must not	look older than their age.
	To particip	pate in the program, youth must:
	• Submit a	signed consent form to be kept on file at the Division,
	• Submit a	copy of their birth certificate to be kept on file at the Division,
	• Have no	facial hair (male youth),
	•Shall not	wear makeup that would cause them to appear older than they are (female youth), and
	• Complete	e training.
6.	the issue	re specific legal or procedural requirements instituted by the state to address e of youth and young adult inspectors' immunity when conducting inspections?
	a.	Legal
		∑ Yes □ No
		(If <b>Yes</b> , please describe.)
		The Department of Mental Health –Division of Behavioral Health is authorized to conduct Synar checks through its budget appropriation.
	b.	Procedural
		☐ Yes ⊠ No
		(If <b>Yes</b> , please describe.)
7.	the issue Synar in	re specific legal or procedural requirements instituted by the state to address e of the safety of youth and young adult inspectors during all aspects of the aspection process?
	a.	Legal
		☐ Yes ⊠ No
		(If <b>Yes</b> , please describe.)
	b.	Procedural
		⊠ Yes □ No
		(If Yes, please describe.)
		The Adult Supervisor is responsible for assessing safety conditions. If in the judgment of the Adult Supervisor the process of conducting a compliance inspection at a given location would pose a safety

threat, then that compliance inspection shall not be attempted. If such a condition develops after a compliance inspection has commenced, the Adult Supervisor shall terminate the inspection and immediately depart the area.

8.	re any other legal or procedural requirements the state has regarding how ions are to be conducted (e.g., age of youth and young adult inspector, time of ions, training that must occur)?	
	a.	Legal
		☐ Yes ⊠ No
		(If <b>Yes</b> , please describe.)
	b.	Procedural
		⊠ Yes □ No
		(If <b>Yes</b> , please describe.)

The 2002 Missouri legislature recommended that only youth between the ages of 16 and 17 year old should be used for Synar Compliance Checks. With the Federal law change in 2019 restricting the sale of tobacco to those under 21 years old SAMHSA recommended states with laws restricting tobacco sales to under 18 years old to utilize a mixture of youth between the ages of 16 and 20 years old.

### APPENDIX D: LIST SAMPLING FRAME COVERAGE STUDY

(LIST FRAME ONLY)

		State: Missouri FFY: 2025
1.	Calenda	ar year of the coverage study: <u>2024</u>
2.	a. b. c. d.	Unweighted percent coverage found: 90.2% Weighted percent coverage found: 94.5% Number of outlets found through canvassing: 215 Number of outlets matched on the list frame: 194
3.	a.	Describe how areas were defined. (e.g., census tracts, counties, etc.)
		Areas were defined by the 20 SUD Service Areas
	b.	Were any areas of the state excluded from sampling?
		☐ Yes  ☐ No
		If <b>Yes</b> , please explain.
4.	Please a	nswer the following questions about the selection of canvassing areas.
	a.	Which category below best describes the sample design? (Check only one.)
		Census (Go to Question 6.)
		Unstratified statewide sample:
		Simple random sample (Respond to Part b.)
		Systematic random sample (Respond to Part b.)
		Single-stage cluster sample (Respond to Parts b and d.)
		Multistage cluster sample (Respond to Parts b and d.)
		Stratified sample:
		$\boxtimes$ Simple random sample (Respond to Parts b and c.)
		Systematic random sample (Respond to Parts b and c.)
		Single-stage cluster sample (Respond to Parts b, c, and d.)
		Multistage cluster sample (Respond to Parts b, c, and d.)
		Uther (Please describe and respond to Part b.)

b. Describe the sampling methods.

Simple random sampling was used to sample road segments of type 1) primary roads, 2) Secondary roads, and 3) local and neighborhood roads, rural roads and city streets {MFCC in ('S1100','S1200','S1400')] from the 2023 Tiger line shapefile of Missouri roads. A road segment was randomly selected in each of the 20 SUD Service Areas. A starting point was designated as the closest intersection from the south/west-most endpoint of the sampled road segment. The area surrounding the starting point intersection was canvassed for tobacco outlets until a predetermined number of outlets had been identified.

	с.	Provide a full description of the strata that were created.
	d.	Provide a full description of how clusters were formed.
5.	Were bo	orders of the selected areas clearly identified at the time of canvassing?
	<b>Yes</b>	□ No
6.	Were all	l sampled areas visited by canvassing teams?
	<b>Yes</b>	(Go to Question 7.)  \[ \bigcap \bigcap \bigcap \bigcap (Respond to Parts a and b.)
	a.	Was the subset of areas randomly chosen?
		☐ Yes ☐ No
	<b>b.</b>	Describe how the subsample of visited areas was drawn. Include the number of areas sampled and the number of areas canvassed.
7.	Were fie	eld observers provided with a detailed map of the canvassing areas?
	☐ Yes	⊠ No
	If <b>No</b> , de	escribe the canvassing instructions given to the field observers.
		were provided a map of paved roads with the starting point and surrounding area. Surveyors were to also bring a state road map with them on the survey.
8.	Were fie	eld observers instructed to find all outlets in the assigned area?
	☐ Yes	⊠ No
	If Yes, de	spond to Question 9. escribe any instructions given to the field observers to ensure the entire area was ed, then go to Question 10.
		were instructed to canvass the area surrounding the starting point and fan out until they have identified a ned number of outlets.

- 9. If a full canvassing was not conducted:
  - a. How many predetermined outlets were to be observed in each area? 5 for service areas with populations up to 190,000; 10 for service areas with populations between 191,001 and 300,000; 15 for service areas with populations between 300,001 and 530,000; 20 for service areas with populations between 530,001 and 1,000,000; and 25 for services areas with populations over 1,000,000.

- **b.** What were the starting points for each area? Closest intersection from the south/west-most ed point of road segment.
- c. Were these starting points randomly chosen?

d. Describe the selection of the starting points.

Simple random sampling was used to sample road segments of type 1) primary roads, 2) Secondary roads, and 3) local and neighborhood roads, rural roads and city streets {MFCC in ('S1100','S1200','S1400')] from the 2023 Tiger line shapefile of Missouri roads. A road segment was randomly selected in each of the 20 SUD Service Areas. A starting point was designated as the closest intersection from the south/west-most endpoint of the sampled road segment.

e. Please describe the canvassing instructions given to the field observers, including predetermined routes.

Surveyors were instructed to canvass the area surrounding the starting point and fan out until they each have identified a predetermined number of outlets. Surveyors were instructed to stay within the service area boundaries and stay on paved, non-private roads.

10. Describe the process field observers used to determine if an outlet sold tobacco.

Surveyors were instructed to look for outlets that potentially sell cigarettes, cigars, pipe tobacco, and chewing tobacco. They physically enter each potential tobacco outlet. When tobacco products are found, the surveyor records the business name, address, and phone number on the survey form. Survey instructions include an adaptable script to be used to explain the purpose of the visit to store employees. In addition, surveyors wear their official state name badges.

11. Please provide the state's definition of "matches" or "mismatches" to the Synar sampling frame? (i.e., address, business name, business license number, etc.)

Matching was based on the values in the following fields: business name, street address, city and phone. City was a required match or near match. If street number was not a near match, then name and phone number needed to match to be considered matching records. When street addresses differed, the locations were mapped (maps.google.com) to determine if both addresses would lead one to the same location.

12. Provide the calculation of the weighted percent coverage (if applicable).

Originally, 215 outlets were to be identified in 20 service areas. The survey weight was determined by dividing the total number of outlets identified (215) by the number of outlets to be identified for each service area. The weighted percent coverage is the sum of the product of the stratum coverage rate and the ratio of the survey weight to the sum of the survey weights.

$$r_c = \sum_{i=1}^{20} \frac{m_i}{s_i} * w_i$$

where r<sub>c</sub>=weighted coverage rate;

m<sub>i</sub>=number of matches found in the service area;

s<sub>i</sub>=predetermined number of outlets to be identified in the service area;

wi=the weight factor for the service area, such that

$$w_i = \frac{s}{s_i} * \frac{1}{\sum_{j=1}^{20} \frac{s}{s_i}}$$

where s=the total predetermined number of outlets to be identified;

 $s_i$ =the predetermined number of outlets to be identified in the service area;

						Weighted
		Outlet	Survey		Stratum	Coverage
Stratum	2019	Allocation	Weight	Matched	Coverage Rate	Rate (h =
(a)	Population	(c)	(d= 215/c)	Outlets (e)	(f = e/c)	f*d/557)
01	78,232	5	43.0	5	100%	7.7%
06	377,384	15	14.3	15	100%	2.6%
07	192,550	10	21.5	10	100%	3.9%
08	111,292	5	43.0	5	100%	7.7%
09	288,299	10	21.5	9	90%	3.5%
10	565,741	20	10.8	20	100%	1.9%
11	311,489	15	14.3	15	100%	2.6%
12	334,753	15	14.3	15	100%	2.6%
13	77,049	5	43.0	5	100%	7.7%
14	79,671	5	43.0	5	100%	7.7%
15	48,806	5	43.0	4	80%	6.2%
16	600,651	20	10.8	17	85%	1.6%
17	209,539	10	21.5	8	80%	3.1%
18	124,858	5	43.0	5	100%	7.7%
19	67,438	5	43.0	5	100%	7.7%
20	75,192	5	43.0	4	80%	6.2%
21	87,398	5	43.0	5	100%	7.7%
22	225,081	10	21.5	10	100%	3.9%
JC	703,011	20	10.8	15	75%	1.4%
SL	1,294,781	25	8.6	17	68%	1.1%
Total	6,137,428	215	556.9	194		94.5%

### SSES Table 1 (Synar Survey Estimates and Sample Sizes)

### **CSAP-SYNAR REPORT**

State	МО		
Federal Fiscal Year (FFY)	2024		
Date	10/10/2024 14:49		
Data	Synar_Input.xlsx		
Program Version	Version 7.0		
Analysis Option	Stratified SRS with FPC		

### **Estimates**

Unweighted Retailer Violation Rate	6.5%		
Weighted Retailer Violation Rate	6.5%		
Standard Error	1.0%		
Is SAMHSA Precision Requirement met?	YES		
Right-sided 95% Confidence Interval	[0.0%, 8.1%]		
Two-sided 95% Confidence Interval	[4.6%, 8.4%]		
Design Effect	1.0		
Accuracy Rate (unweighted)	91.6%		
Accuracy Rate (weighted)	91.6%		
Completion Rate (unweighted)	96.8%		

### **Sample Size for Current Year**

Effective Sample Size	482
Target (Minimum) Sample Size	482
Original Sample Size	645
Eligible Sample Size	591
Final Sample Size	572
Overall Sampling Rate	12.0%

STATE: MO

FFY: 2024

Samp. Stratum	Var. Stratum	Outlet Frame Size	Estimated Outlet Population Size	Number of PSU Clusters Created	Number of PSU Clusters in Sample	Outlet Sample Size	Number of Eligible Outlets in Sample	Number of Sample Outlets Inspected	Number of Sample Outlets in Violation	Retailer Violation Rate(%)	Standard Error (%)
					All Outlet	s					
Eastern	Eastern	1,265	1,179	N/A	N/A	162	151	145	4	2.8%	
Northcentral	Northcentral	856	766	N/A	N/A	105	94	92	6	6.5%	
Northwestern	Northwestern	1,211	1,122	N/A	N/A	150	139	138	13	9.4%	
Southeastern	Southeastern	911	812	N/A	N/A	110	98	93	6	6.5%	
Southwestern	Southwestern	955	882	N/A	N/A	118	109	104	8	7.7%	
Total		5,198	4,761			645	591	572	37	6.5%	1.0%
				Over	the Counter	r Outlets					
Eastern	Eastern	1,265	1,179	N/A	N/A	162	151	145	4	2.8%	
Northcentral	Northcentral	856	766	N/A	N/A	105	94	92	6	6.5%	
Northwestern	Northwestern	1,211	1,122	N/A	N/A	150	139	138	13	9.4%	
Southeastern	Southeastern	911	812	N/A	N/A	110	98	93	6	6.5%	
Southwestern	Southwestern	955	882	N/A	N/A	118	109	104	8	7.7%	
Total		5,198	4,761			645	591	572	37	6.5%	1.0%
	Vending Machines										
Eastern	Eastern	0	0	N/A	N/A	0	0	0	0	0.0%	
Northcentral	Northcentral	0	0	N/A	N/A	0	0	0	0	0.0%	
Northwestern	Northwestern	0	0	N/A	N/A	0	0	0	0	0.0%	
Southeastern	Southeastern	0	0	N/A	N/A	0	0	0	0	0.0%	
Southwestern	Southwestern	0	0	N/A	N/A	0	0	0	0	0.0%	
Total		0	0			0	0	0	0	0.0%	0.0%

STATE: MO FFY: 2024

Disposition Code	Description	Count	Subtotal
EC	Eligible and inspection complete outlet	572	
Total (Eligible Completes)			572
N1	In operation but closed at time of visit	9	
N2	Unsafe to access	0	
N3	Presence of police	1	
N4	Youth inspector knows salesperson	0	
N5	Moved to new location but not inspected	0	
N6	Drive thru only/youth inspector has no drivers license	0	
N7	Tobacco out of stock	1	
N8	Run out of time	0	
N9	Other noncompletion (see below)	8	
Total (Eligible Noncompletes)			19
I1	Out of Business	10	
12	Does not sell tobacco products	29	
13	Inaccessible by youth	7	
I4	Private club or private residence	4	
15	Temporary closure	0	
16	Can't be located	3	
17	Wholesale only/Carton sale only	0	
18	Vending machine broken	0	
19	Duplicate	1	
I10	Other ineligibility	0	
Total (Ineligibles)			54
Grand Total			645

Give reasons and counts for other noncompletion:

Reason	Count	
Youth unable to continue due to time of day	1	
Youth knew someone in the store	1	
Not able to complete by end of FFY	1	
Disposition unknown/not reported	5	

### SSES Table 4 (Synar Survey Inspection Results by Youth Inspector Characteristics)

STATE: MO FFY:

2024

### **Frequency Distribution**

Gender	Age	Number of Inspectors	Attempted Buys	Successful Buys
Male	14	0	0	0
	15	0	0	0
	16	1	25	2
	17	6	182	5
	18	6	126	10
	19	0	0	0
	20	3	40	2
	Subtotal	16	373	19
Female	14	0	0	0
	15	0	0	0
	16	0	0	0
	17	2	34	4
	18	5	94	5
	19	3	71	9
	20	0	0	0
	Subtotal	10	199	18
Other		0	0	0
Grand Total		26	572	37

### **Buy Rate in Percent by Age and Gender**

Age	Male	Female	Total
14	0.0%	0.0%	0.0%
15	0.0%	0.0%	0.0%
16	8.0%	0.0%	8.0%
17	2.7%	11.8%	4.2%
18	7.9%	5.3%	6.8%
19	0.0%	12.7%	12.7%
20	5.0%	0.0%	5.0%
Other		_	0.0%
Total	5.1%	9.0%	6.5%